

ICF-IR7

SERVICE MANUAL

AEP Model
UK Model



SPECIFICATIONS

Frequency ranges

Location of purchase	FM	AM(MW)	LW
AEP, UK (except Germany and Italy)	87.5 – 108 MHz	531 – 1,602 kHz	153 – 281 kHz

AM (MW) tuning interval

9 kHz

Intermediate frequency

FM: 10.7 MHz

AM: 450 kHz

Antennas

FM: Cord antenna

AM(MW)/LW: Built-in ferrite bar antenna

Speakers

Mid-range: 7.7 cm (3 1/8 in.)

Impedance 6 ohms

Woofer: 7.7 cm (3 1/8 in.)

Impedance 5 ohms

Power output

2.0 W + 2.0 W (at 10% of harmonic distortion)

Effective range of the infrared rays

Approx. 5 m (16.4 ft.) (The number may vary depending on the condition of the room, batteries, etc.)

Power requirements

Remote commander: DC 4.5 V, three R6 (size AA) batteries

AC 240 V, 50 Hz UK model

AC 220 – 230 V, 50 Hz AEP model

For power backup function: DC 3 V two R6 (size AA) batteries

Battery life

Remote commander: Approx. 1 year (with Sony AM3(N) alkaline batteries)

Speaker: Approx. 1 year

Dimensions

Remote commander:

Approx. 149.6 × 72.3 × 135.5 mm (w/h/d)
(6 × 7 7/8 × 5 3/8 inches) not incl. projecting parts

Speaker:

Approx. 121.0 × 468.1 × 137.0 mm (w/h/d)
(4 7/8 × 18 1/2 × 5 1/2 inches) not incl. projecting parts

Speaker stand:

Approx. 180.0 × 25.0 × 190.0 mm (w/h/d)
(7 1/8 × 1 × 7 1/2 inches) not incl. projecting parts

Weight

Remote commander: 228.4 g (8.1 oz) not incl. batteries

Speakers: Right 2.1 kg (4 lb 10 oz)

Left 2.7 kg (5 lb 15 oz)

Supplied accessories

Speaker connecting cord (1)

Speaker stand (1 set)

Note

This appliance conforms with EEC Directive 87/308/ECC regarding interference suppression.

Design and specifications subject to change without notice.

Be sure to receive the unit to repair with speakers (ICF-IR7) and remote commander (RC-IR7)

REMOTE CONTROL CLOCK STEREO SYSTEM

SONY®



MC-Service

Features

The ICF-IR7 is a remote-control clock stereo system, which employs an omnidirectional remote control device using infrared rays. Since the speakers are not connected to the remote commander by a connecting cord, you are free to customize the system installation in many different ways.

- The 2-way 4-speaker system enables you to enjoy stereo sound with powerful bass.
- The remote commander is compact and thus highly versatile.
- You can choose from three alarm sounds: a radio alarm, a buzzer alarm, or a dual alarm that combines both Alarm A (radio) and Alarm B (buzzer).
alarm: Alarm A (radio) and Alarm B (buzzer).
- The system has a memory for 10 preset stations. We recommend you to preset your favorite stations for easier tuning.
- The Sony Discman with REMOTE jack may be connected to the speaker and controlled by the remote commander.

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SAFETY-RELATED COMPONENT WARNING!!

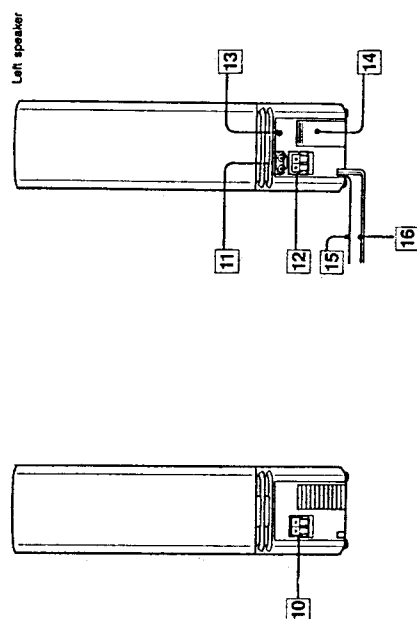
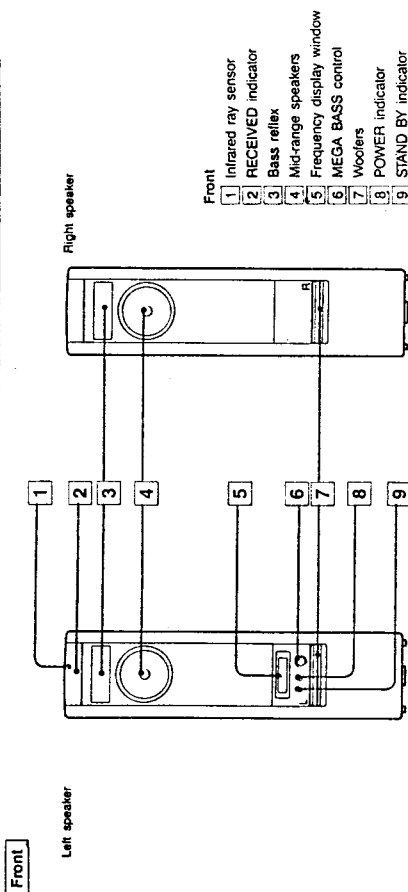
COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1 GENERAL

This section is extracted from instruction manual.

【ICF-IR7】

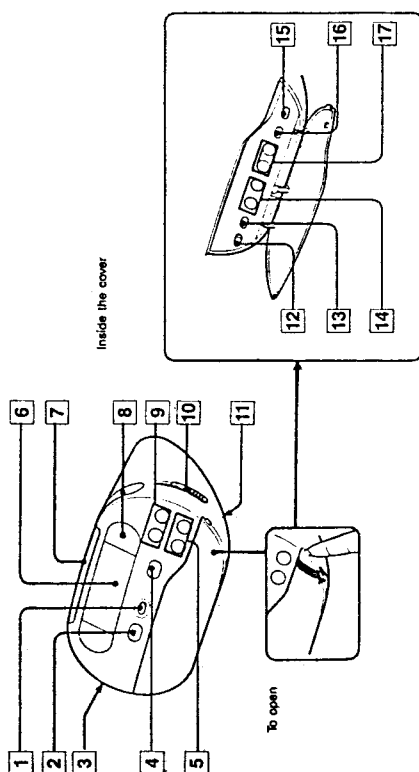
Speakers



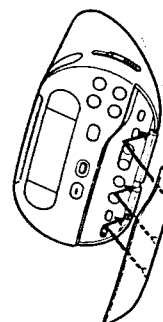
Location of Controls

【RC-IR7】

Remote Commander



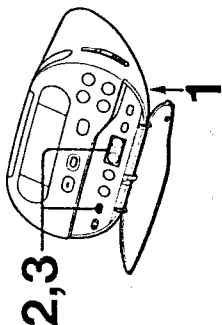
If the cover of the remote commander is detached by an accidental drop, excessive force, etc., attach it as illustrated.



Push three projecting parts of the cover into the slots.
Pousser les trois projections du volet dans les fentes.

*AMS is the abbreviation of Automatic Music Sensor.

Setting the Clock



- 1 Insert batteries (see page 12). Digits will appear in the display window. Either a 12-hour or 24-hour time keeping system is employed, depending on the country where the system is purchased.

12-hour system	24-hour system
AM 12:00 = midnight	0:00 = midnight
PM 12:00 = noon	12:00 = noon

- 2 Open the cover and set the clock to the current time. (The + button advances the digits and the - button moves them back.)

- Each time the TIME SET button is pressed, the digits will move forward or back by one. If you keep the button pressed, the digits will change rapidly.
- The minute digits return to "00" after reaching "59", and the hour digits advance by one with each turnover to the "00" setting.

- 3 When the button is released, the clock will start to operate.

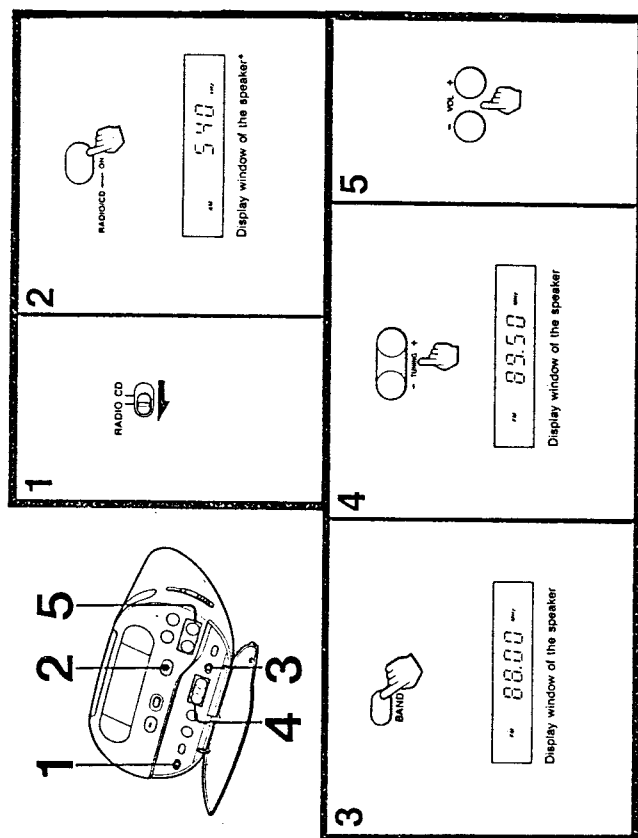
If more than 60 seconds have passed after removing the batteries
The display of the current time will disappear. When new batteries are inserted, either AM 12:00 or 0:00 will appear on the time display, depending on the model.

To adjust the time exactly to the second
Use the radio or telephone time signal.
Example: To set to AM 7:15:00

Adjust the time to 7:15 and keep the CLOCK button pressed. Release the time to 7:15 and keep the CLOCK button pressed. Release it simultaneously with the time signal as it sounds.

To light the remote commander display window
Press the REPEAT ALARM/LIGHT bar so that the display window will be lit up for about 10 seconds.

Operating the Radio —Manual Tuning



- 1 Set the RADIO/CD selector to RADIO.
- 2 Press the RADIO/CD ON button.
The frequency setting will appear in the speaker display window.
- 3 Select the desired band with the BAND button.
(FM/AM (MW/LW))
- 4 Tune in the desired station with the TUNING button.
Each time you press the TUNING "+/-" button, the digits indicating the frequency setting will increase, the TUNING "-/-" button will decrease the frequency setting. When you keep the button pressed, the digits will advance or move back rapidly.
- 5 Adjust the volume.
The VOL - and VOL + buttons reduce and increase the volume, respectively.

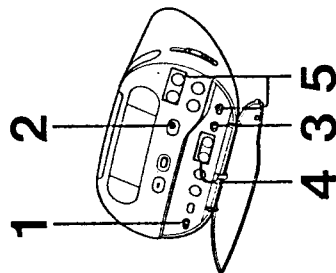
To turn off the radio, press the RADIO/CD OFF button.

* The frequency band indicator on the display window will vary, depending on the model sold in your country.

Preset Tuning

Once you preset desired stations, you can tune them in, simply by pressing the MEMORY PRESET button. You can preset a total of 10 FM and AM (MW/LW) stations.

To preset the desired station



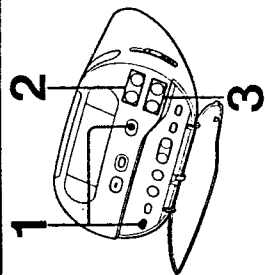
1 RADIO/CD	2 MEMORY PRESET Display window of the speaker* 54.0
3 BAND Display window of the speaker 54.0	4 ENTER Display window of the speaker 88.00
5 MEGA BASS While pressing. Example: To preset FM 89.50 MHz on Preset No.1 Display window of the speaker 89.50	5 MEMORY PRESET While pressing. Example: To preset FM 89.50 MHz on Preset No.1 Display window of the speaker 89.50

- 1 Set the RADIO/CD selector to RADIO.
 - 2 Press the RADIO/CD ON button.
The frequency setting will appear in the display window of the speaker.
 - 3 Select the desired band with the BAND button.
 - 4 Tune in the desired station.
 - 5 While pressing the ENTER button, select the desired frequency setting by pressing the MEMORY PRESET button. Keep the ENTER and MEMORY PRESET buttons pressed for about 2 seconds until a beep sound is heard, then release both buttons simultaneously.
- * The preset frequency setting advances or moves back by one digit with each press of the MEMORY PRESET button.
 - * If you keep the + button pressed, the digits will return to "11" after reaching "10".
 - * If you keep the - button pressed, the digits return to "10" after reaching "1".
 - Repeat the steps 3 to 5, above, for each station you want to preset.
 - * The band indication on the display window varies, depending on the band.

Preset Tuning

To change the preset station
Set the MEMORY PRESET button to setting (1 through 10) you wish to change. Repeat steps 3 to 5 to preset a new station. The preset station previously memorized will automatically be replaced with the new one.

To Tune In the Preset Station



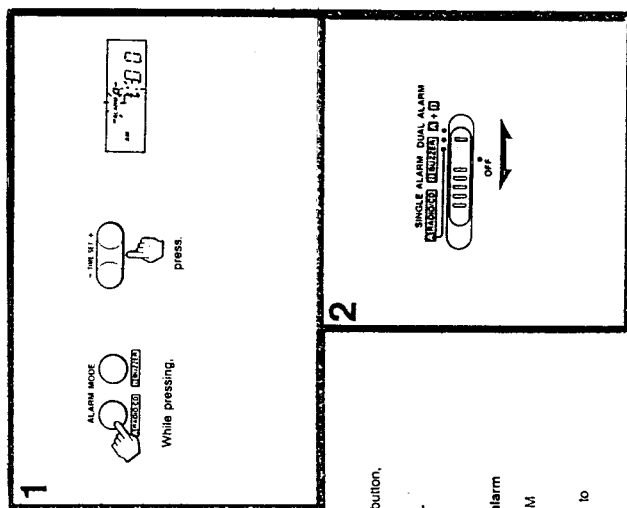
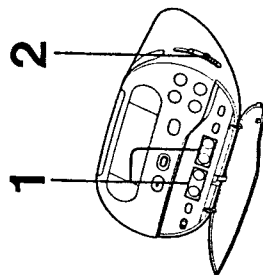
- 1 Repeat the steps 1 and 2 in "Preset Tuning" (page 24).
- 2 Select the desired preset number with the MEMORY PRESET button.
- 3 Adjust the volume.
To improve reception
Adjust the antenna.
FM
Extend the FM antenna cord fully. When the FM stereo reception is not good, the sound automatically switches to monaural.
AM (MW/LW)
Since the reception is affected by the built-in antenna, rotate the left speaker horizontally to achieve optimum reception.

To enjoy more powerful bass sound Turn the MEGA BASS control clockwise to enjoy more powerful bass sound. Press and turn.	Left speaker
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Setting the Alarm

Make sure that the infrared rays reach the sensor of the speaker.

To set the alarm



- 1 Set the alarm time of the radio or the buzzer.
To set the radio alarm time, press the TIME SET button, + or - while keeping the ALARM MODE button pressed.

To set the buzzer alarm time, press the TIME SET button, + or - while keeping the ALARM MODE button pressed.

- 2 Set the ALARM MODE selector to the desired alarm setting.

For radio alarm, set the selector to SINGLE ALARM.

For buzzer alarm, set the selector to BUZZER.

For dual alarm (radio and buzzer), set the selector to DUAL ALARM A + B.

When the A time setting is reached, the radio or CD will sound. When the B time setting is reached, the buzzer will sound.

For radio alarm

Tune in the desired station and adjust the volume. Make sure the RADIO/CD selector switch is set to RADIO.

At the preset time

The desired alarm sound will be heard. The radio will turn itself off in about 60 minutes, and the buzzer in 10 minutes. The radio sound volume set will increase over time. Lower the volume if you have set the radio to high volume.

If you want to keep the radio on

Press the RADIO/CD ON button.

To stop the alarm sound

Press the ALARM RESET/RADIO/CD OFF button.

Repeat alarm function

If you wake to the alarm sound but want to doze for a few more minutes, just press the REPEAT ALARM/LIGHT bar. The alarm sound will stop, and at the same time, the display window will be lit for about 10 seconds. The alarm sound will automatically resume again after about 8 minutes. You can repeat this function as many times as you wish. If you want to stop the alarm sound permanently, press the ALARM RESET button.

To wake up to the alarm sound at the same time the next day

Stop the alarm by pressing the ALARM RESET button.

Leave the ALARM MODE selector in the same position.

To check the preset alarm time

Press the ALARM MODE button labelled RADIO/CD to check the radio preset time, and the BUZZER button for the buzzer preset time.

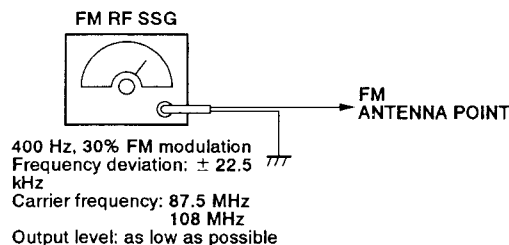
SECTION 2

ELECTRICAL ADJUSTMENT

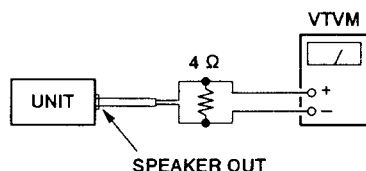
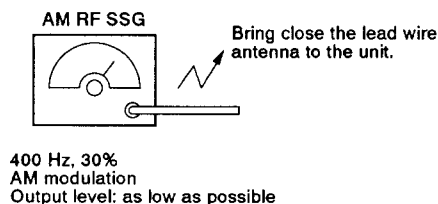
[Precautions]

- Perform the adjustment control with the remote commander (RC-IR7) supplied to ICF-IR7.
- Repeat the tracking adjustment several times until the VTVM indicates maximum level, and finish the adjustment with the trimmer capacitor adjustment.
- Be sure to perform the tracking adjustment after the adjustment of received frequency range.

[FM adjustment]



[AM adjustment]



0 dB=1 μ V

※ FM VCO adjustment (fmax)	
Adjust so that the voltage between the LPF output point and the ground becomes 10 ± 0.3 V.	
L3	Unit's display: 108 MHz

※ FM VCO check (fmin)	
Confirm that the voltage between the LPF output point and the ground is 1.2V or more.	
	Unit's display: 87.5 MHz

FM tracking adjustment	
Adjust for a maximum reading on VTVM.	
L2	87.5 MHz
CT2	108 MHz

MPX VCO adjustment	
Connect the frequency counter between Pin ④ of IC4 and the ground and adjust for 78.0 ± 0.5 kHz.	
RV1	FM mode (desired frequency)

Note) Connect capacitor of 100 μ F between Pin ② of IC3 (DET OUT) and the ground when performing the MPX adjustment.

※ AM (MW) VCO adjustment (fmin)	
Adjust so that the voltage between the LPF output point and the ground becomes 1.2 ± 0.05 V.	
L4	Unit's display: 531 kHz

※ AM (MW) VCO check (fmax)	
Confirm that the voltage between the LPF output point and the ground is 7.5 to 8.5V.	
	Unit's display: 1602 kHz

AM (MW) IF adjustment	
Adjust for a maximum reading on VTVM.	
T2	450kHz

AM (MW) racking adjustment	
Adjust for a maximum reading on VTVM.	
CT1	1395 kHz (except US, Canadian)
L1-1	621 kHz (except US, Canadian)

※ AM (LW) VCO adjustment (fmin)	
Adjust so that the voltage between the LPF output point and the ground becomes 1.2 ± 0.1 V.	
L8	Unit's display: 153 kHz

※ AM (LW) VCO check (fmax)	
Confirm that the voltage between the LPF output point and the ground is 7.5 to 8.5V.	
	Unit's display: 279 kHz

AM (LW) IF adjustment	
Adjust for a maximum reading on VTVM.	
T1	450kHz

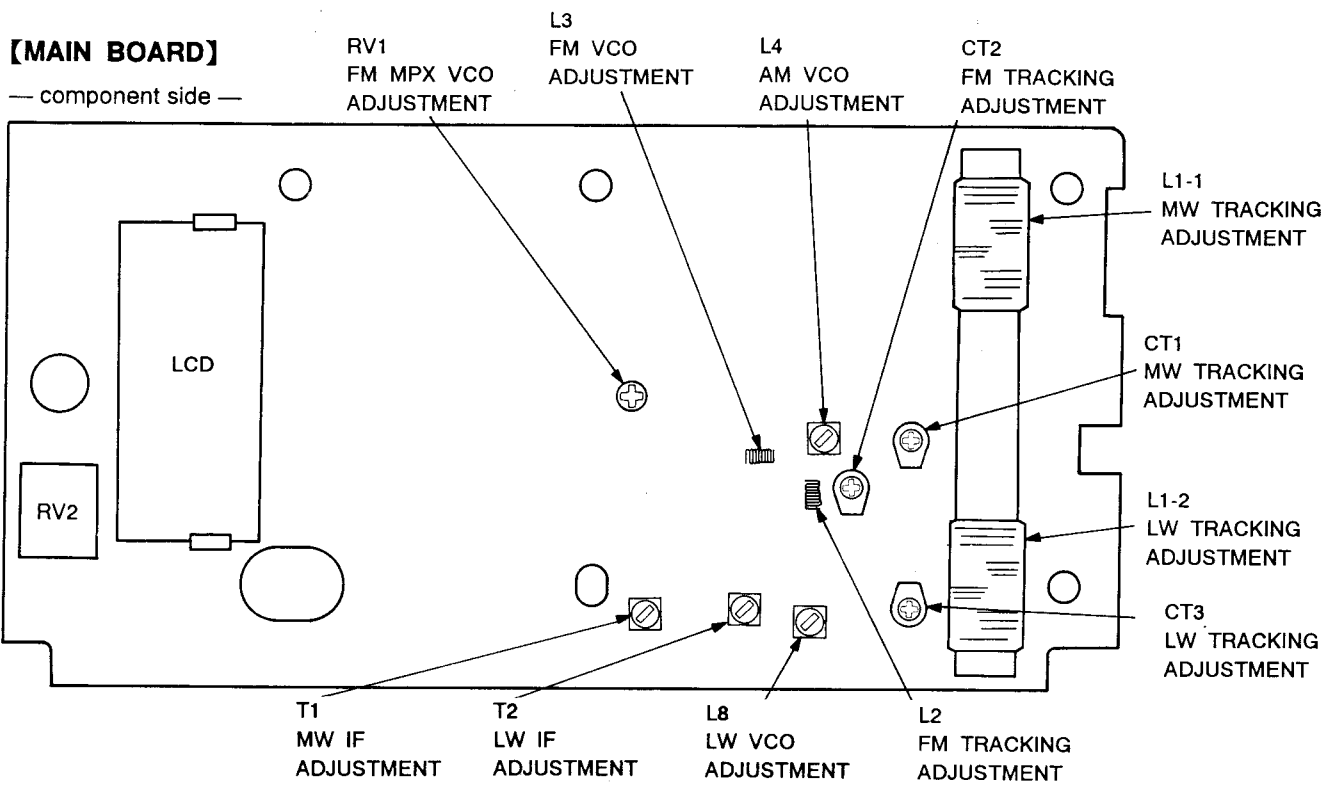
AM (LW) racking adjustment	
Adjust for a maximum reading on VTVM.	
CT3	279 kHz
L1-2	153 kHz

The ※ marked adjustment does not accept the input from the antenna terminal.

• Adjustment Element Location

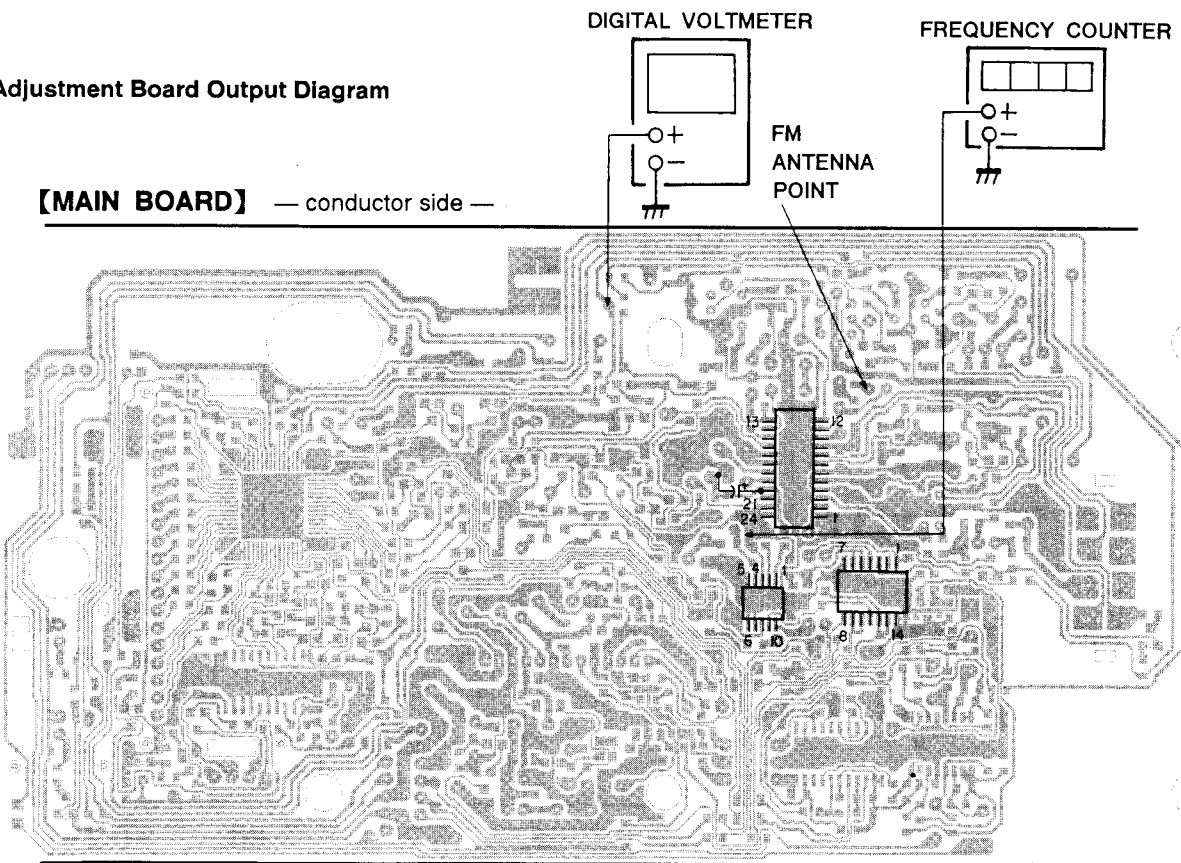
[MAIN BOARD]

— component side —



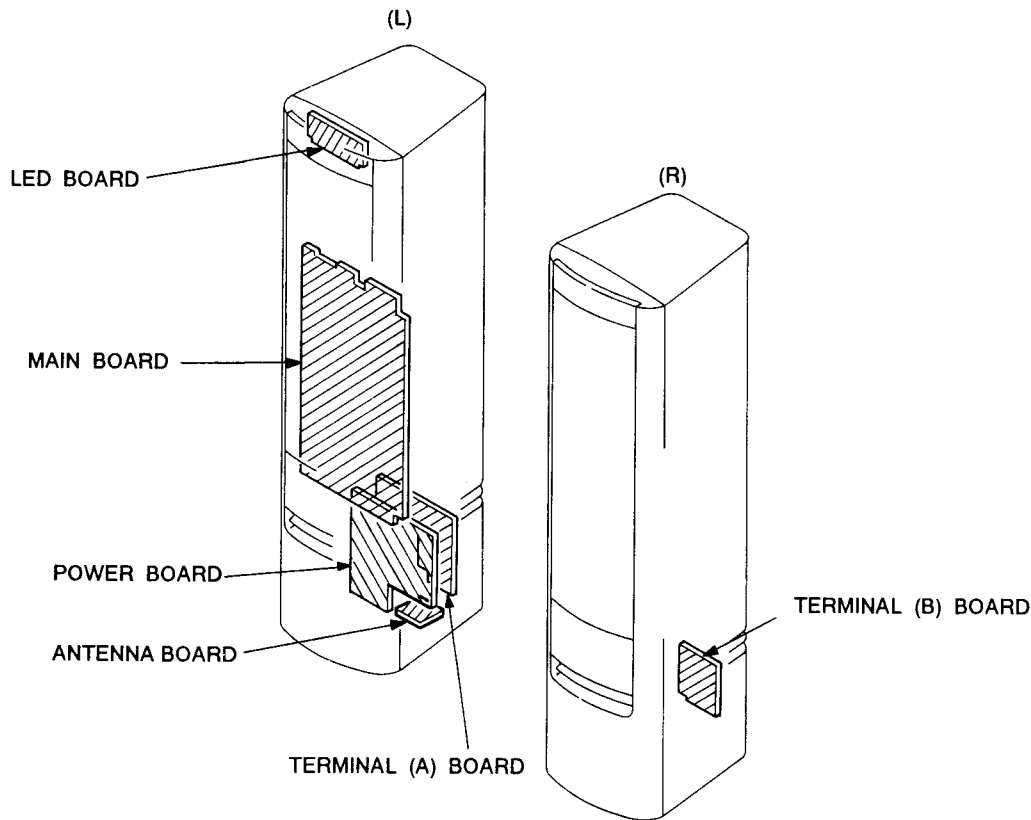
• Adjustment Board Output Diagram

[MAIN BOARD] — conductor side —



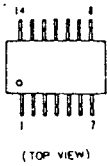
SECTION 3 DIAGRAMS

• Circuit Boards Location

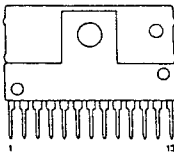


• Semiconductor Lead Layouts

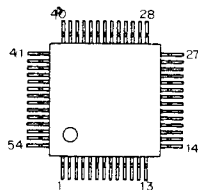
BU4066BF
LM324N5S



LA4597



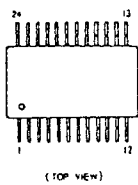
μPD1715G-644-22



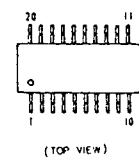
11E2



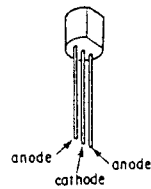
CX20111



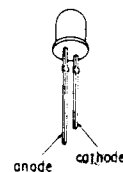
LC7534M
μPD7564G-544



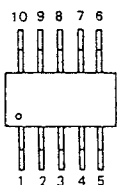
SVC342-L



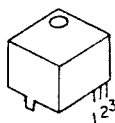
SLP-136B-81
GL-5EG521-B



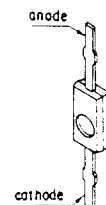
LA3335M



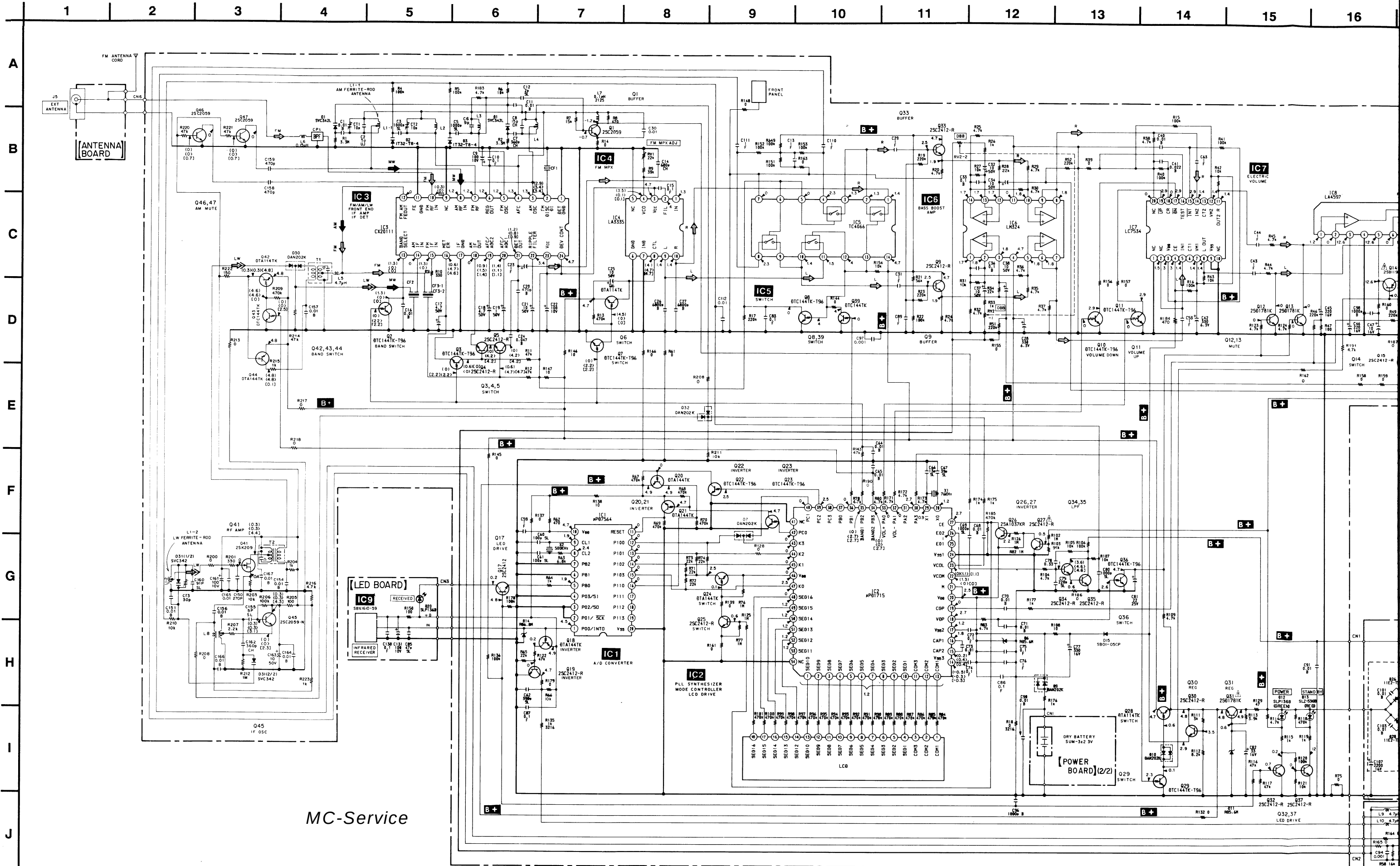
SBX1610-59



IT-32
IT-33



• SCHEMATIC DIAGRAM



MC-Service

• Semiconductor Locations

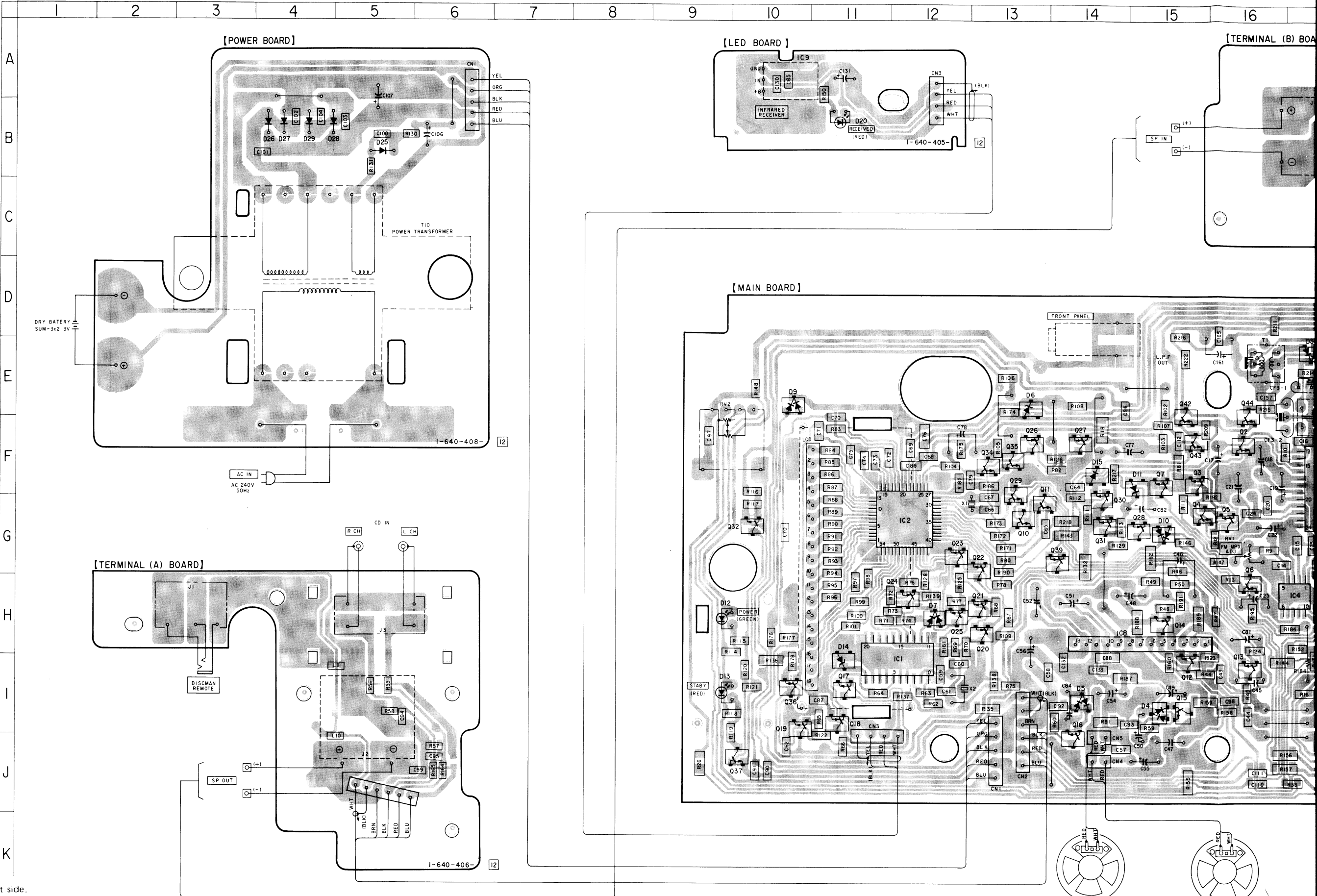
Ref. No.	Location	Ref. No.	Location
D1	G-19	Q41	E-18
D2	F-18	Q42	F-15
D3	F-18	Q43	F-15
D4	I-15	Q44	F-16
D5	I-14	Q45	E-19
D6	E-13	Q46	G-19
D7	D-12	Q47	H-21
D9	E-10		
D10	G-15		
D11	F-15		
D12	H-9		
D13	I-9		
D14	I-11		
D15	F-14		
D30	E-17		
D31	E-19		
D32	D-17		
IC1	I-12		
IC2	G-12		
IC3	F-17		
IC4	H-17		
IC5	H-18		
IC6	I-18		
IC7	I-17		
IC8	H-15		
Q1	F-19		
Q2	F-16		
Q3	F-15		
Q4	G-15		
Q5	G-16		
Q6	H-16		
Q7	F-15		
Q8	H-17		
Q9	H-18		
Q10	G-13		
Q11	G-13		
Q12	I-15		
Q13	I-16		
Q14	H-15		
Q15	I-15		
Q16	J-14		
Q17	I-11		
Q18	I-11		
Q19	J-10		
Q20	H-13		
Q21	H-13		
Q22	H-13		
Q23	G-12		
Q24	H-12		
Q25	H-12		
Q26	F-13		
Q27	F-14		
Q28	G-15		
Q29	G-13		
Q30	G-14		
Q31	G-14		
Q32	G-10		
Q33	H-18		
Q34	F-13		
Q35	F-13		
Q36	I-10		
Q37	J-10		
Q39	G-14		

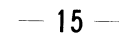
Note:

- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : parts mounted on the conductor side.
- : indicates side identified with part number.

• PRINTED WIRING BOARDS

• Refer to Page 9 for Semiconductor Lead Layouts.





SECTION 4

NOTE:

- -XX, -X mean standardized parts, so they may have some difference from the original one.

- **Color Indication of Appearance Parts**
Example:

KNOB, BALANCE (WHITE)...(RED)

Parts color Cabinet's color

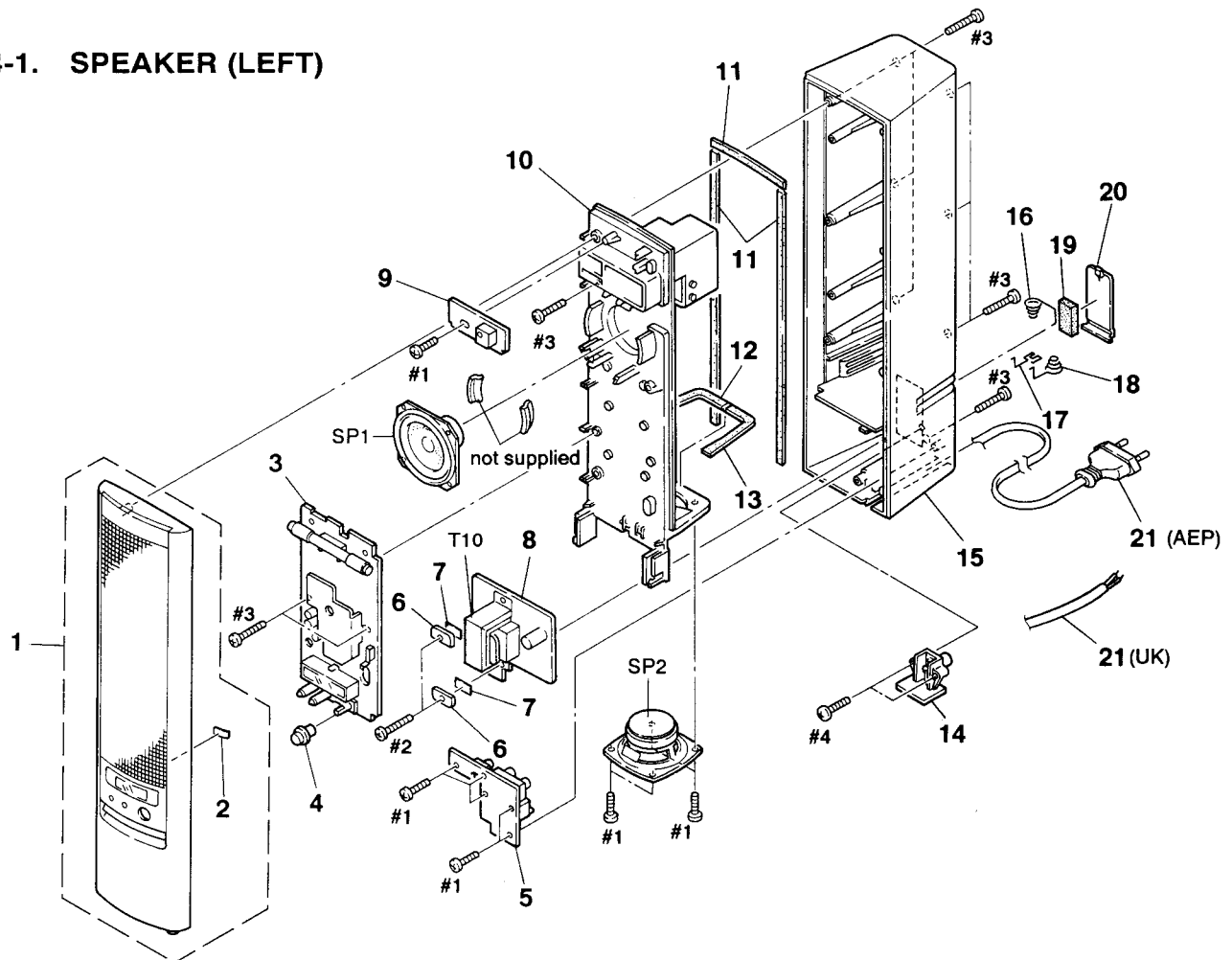
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The mechanical parts with no reference number in the exploded views are not supplied.

- Hardware (# mark) list is given in the last of this parts list.

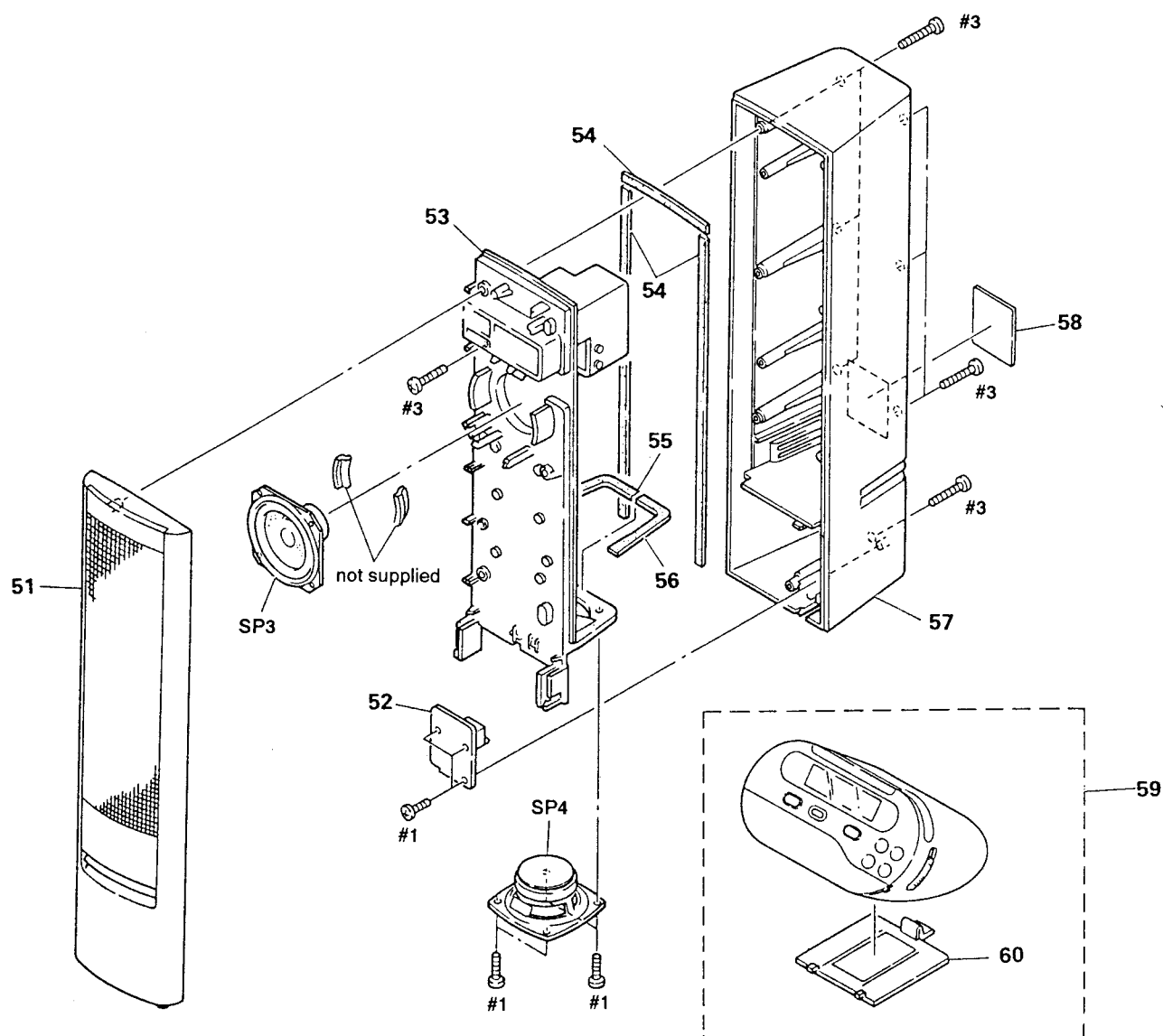
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

4-1. SPEAKER (LEFT)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	X-3362-755-1	CABINER (FRONT) (LEFT) ASSY		14	* 1-640-404-11	ANTENNA BOARD	
2	* 3-902-268-01	COPPER LEAF (A)		15	3-365-924-01	CABINET (REAR)	
3	* A-3679-231-A	MAIN BOARD, COMPLETE (UK)		16	3-365-910-01	SPRING (C), BATTERY COIL	
3	* A-3679-240-A	MAIN BOARD, COMPLETE (AEP)		17	3-365-908-01	TERMINAL (A), BATTERY	
4	3-365-907-01	KNOB (VOLUME)		18	3-365-909-01	SPRING (B), BATTERY COIL	
5	* 1-640-406-11	TERMINAL (A) BOARD		19	9-911-815-01	CUSHION	
6	3-368-323-01	WASHER		20	3-365-911-01	LID, BATTERY CASE	
7	3-885-325-01	SHEET (B), ADHESIVE		21	⚠ 1-555-795-00	CORD, POWER, EULO PLUG (AEP)	
8	* 1-640-408-11	POWER BOARD		21	⚠ 1-556-035-00	CORD, POWER (UK)	
9	* 1-640-405-11	LED BOARD		SP1	1-544-447-11	SPEAKER	
10	* 3-365-925-01	CHASSIS		SP2	1-544-448-11	SPEAKER (WOOFER)	
11	* 3-365-913-01	CUSHION (B)		T10	⚠ 1-450-319-11	TRANSFORMER, POWER	
12	* 3-365-914-01	CUSHION (C)					
13	* 3-365-915-01	CUSHION (D)					

4-2. SPEAKER (RIGHT)



Ref. No.	Part No.	Description	Remark
51	X-3362-756-1	CABINET (FRONT) (RIGHT) ASSY	
52	* 1-637-667-11	TERMINAL (B) BOARD	
53	* 3-365-925-01	CHASSIS	
54	* 3-365-913-01	CUSHION (B)	
55	* 3-365-914-01	CUSHION (C)	
56	* 3-365-915-01	CUSHION (D)	
57	3-365-924-21	CABINET (REAR)	
58	* 3-365-903-01	COVER	

Ref. No.	Part No.	Description	Remark
59	A-3608-039-A	REMOTE COMMANDER (RC-1R7) (AEP)	
59	A-3608-046-A	REMOTE COMMANDER (RC-1R7) (UK)	
60	3-366-426-01	COVER, BATTERY (RC-1R7)	
SP3	1-544-447-11	SPEAKER	
SP4	1-544-448-11	SPEAKER (WOOFER)	

ANTENNA**LED****MAIN****SECTION 5
ELECTRICAL PARTS LIST****NOTE:**

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

• Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

• -XX, -X mean standardized parts, so they may have some difference from the original one.

• RESISTORS

All resistors are in ohms

METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

• Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• SEMICONDUCTORS

In each case, u: μ , for example:

uA...: μ A..., uPA...: μ PA...,

uPB...: μ PB..., uPC...: μ PC...,

uPD...: μ PD...

• CAPACITORS

uF: μ F

• COILS

uH: μ H

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	* 1-640-404-11	ANTENNA BOARD *****		C6	1-163-092-00	CERAMIC CHIP 9PF	0.25PF 50V
		< JACK >		C7	1-163-130-00	CERAMIC CHIP 360PF	5% 50V
J5	* 1-580-227-21	CONNECTOR, COAXIAL (EXT ANTENNA)		C8	1-163-097-00	CERAMIC CHIP 15PF	5% 50V
		*****		C9	1-124-443-00	ELECT 100uF	20% 10V
	* 1-640-405-11	LED BOARD *****		C10	1-163-038-00	CERAMIC CHIP 0.1uF	25V
		< CAPACITOR >		C11	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C85	1-163-109-00	CERAMIC CHIP 47PF	5% 50V	C12	1-163-085-00	CERAMIC CHIP 2PF	50V
C130	1-163-038-00	CERAMIC CHIP 0.1uF	25V	C13	1-164-346-11	CERAMIC CHIP 1uF	16V
C131	1-124-443-00	ELECT 100uF	20% 10V	C14	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
		< IC >		C15	1-163-038-00	CERAMIC CHIP 0.1uF	25V
IC9	8-741-100-48	IC SBX1610-59		C16	1-164-232-11	CERAMIC CHIP 0.01uF	50V
		< RESISTOR >		C17	1-124-927-11	ELECT 4.7uF	20% 100V
R150	1-216-025-00	METAL CHIP 100 5% 1/10W		C18	1-124-927-11	ELECT 4.7uF	20% 100V
		*****		C19	1-124-903-11	ELECT 1uF	20% 50V
	* A-3679-231-A	MAIN BOARD, COMPLETE (UK)		C20	1-163-005-11	CERAMIC CHIP 470PF	10% 50V
	* A-3679-240-A	MAIN BOARD, COMPLETE (AEP)		C21	1-124-907-11	ELECT 10uF	20% 50V
		*****		C22	1-124-443-00	ELECT 100uF	20% 10V
	1-809-278-11	DISPLAY PANEL, LIQUID CRYSTAL		C23	1-164-346-11	CERAMIC CHIP 1uF	16V
	* 3-366-618-01	HOLDER (LCD)		C24	1-163-809-11	CERAMIC CHIP 0.047uF	10% 25V
	* 3-366-895-01	PLATE, GROUND		C25	1-124-907-11	ELECT 10uF	20% 50V
	7-682-547-04	SCREW +PTT 3X6 (S)		C26	1-163-019-00	CERAMIC CHIP 0.0068uF	10% 50V
	9-911-837-XX	CUSHION		C27	1-163-019-00	CERAMIC CHIP 0.0068uF	10% 50V
		< CAPACITOR >		C28	1-124-442-00	ELECT 330uF	20% 6.3V
C1	1-164-232-11	CERAMIC CHIP 0.01uF	50V	C29	1-164-346-11	CERAMIC CHIP 1uF	16V
C2	1-163-088-00	CERAMIC CHIP 5PF	50V	C30	1-164-232-11	CERAMIC CHIP 0.01uF	50V
C3	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V	C31	1-164-346-11	CERAMIC CHIP 1uF	16V
C5	1-163-141-00	CERAMIC CHIP 0.001uF	5% 50V	C32	1-124-907-11	ELECT 10uF	20% 50V
				C33	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
				C34	1-124-907-11	ELECT 10uF	20% 50V
				C36	1-164-004-11	CERAMIC CHIP 0.1uF	10% 25V
				C37	1-124-907-11	ELECT 10uF	20% 50V
				C38	1-124-907-11	ELECT 10uF	20% 50V
				C40	1-164-232-11	CERAMIC CHIP 0.01uF	50V
				C41	1-163-037-11	CERAMIC CHIP 0.022uF	10% 25V
				C42	1-124-442-00	ELECT 330uF	20% 6.3V

MAIN

Ref. No.	Part No.	Description	Remark	
C43	1-164-346-11	CERAMIC CHIP 1uF	16V	
C44	1-164-346-11	CERAMIC CHIP 1uF	16V	
C45	1-124-120-11	ELECT 220uF	20%	25V
C46	1-124-120-11	ELECT 220uF	20%	25V
C47	1-124-907-11	ELECT 10uF	20%	50V
C48	1-124-120-11	ELECT 220uF	20%	25V
C49	1-124-360-00	ELECT 1000uF	20%	16V
C50	1-124-903-11	ELECT 1uF	20%	50V
C51	1-126-101-11	ELECT 100uF	20%	16V
C52	1-126-101-11	ELECT 100uF	20%	16V
C53	1-164-346-11	CERAMIC CHIP 1uF	16V	
C54	1-124-360-00	ELECT 1000uF	20%	16V
C55	1-126-233-11	ELECT 22uF	20%	50V
C56	1-124-360-00	ELECT 1000uF	20%	16V
C57	1-164-004-11	CERAMIC CHIP 0.1uF	10%	25V
C58	1-164-004-11	CERAMIC CHIP 0.1uF	10%	25V
C59	1-164-346-11	CERAMIC CHIP 1uF	16V	
C60	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C61	1-163-117-00	CERAMIC CHIP 100PF	5%	50V
C62	1-163-131-00	CERAMIC CHIP 390PF	5%	50V
C63	1-164-346-11	CERAMIC CHIP 1uF	16V	
C64	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C65	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C66	1-163-096-00	CERAMIC CHIP 13PF	5%	50V
C67	1-163-107-00	CERAMIC CHIP 39PF	5%	50V
C68	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C69	1-163-141-00	CERAMIC CHIP 0.001uF	5%	50V
C70	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C71	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C72	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C73	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C74	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C75	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C76	1-162-638-11	CERAMIC CHIP 1uF	16V	
C77	1-124-119-00	ELECT 330uF	20%	16V
C78	1-130-774-00	FILM 0.33uF	5%	63V
C79	1-163-125-00	CERAMIC CHIP 220PF	5%	50V
C80	1-163-141-00	CERAMIC CHIP 0.001uF	5%	50V
C81	1-126-233-11	ELECT 22uF	20%	50V
C82	1-124-034-51	ELECT 33uF	20%	16V
C83	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C84	1-124-903-11	ELECT 1uF	20%	50V
C86	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C87	1-163-038-00	CERAMIC CHIP 0.1uF	25V	
C88	1-162-638-11	CERAMIC CHIP 1uF	16V	
C89	1-164-346-11	CERAMIC CHIP 1uF	16V	
C90	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C91	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C92	1-163-809-11	CERAMIC CHIP 0.047uF	10%	25V
C93	1-163-809-11	CERAMIC CHIP 0.047uF	10%	25V

Ref. No.	Part No.	Description	Remark	
C96	1-163-009-11	CERAMIC CHIP 0.001uF	10%	50V
C97	1-163-009-11	CERAMIC CHIP 0.001uF	10%	50V
C98	1-163-009-11	CERAMIC CHIP 0.001uF	10%	50V
C110	1-164-346-11	CERAMIC CHIP 1uF	16V	
C111	1-164-346-11	CERAMIC CHIP 1uF	16V	
C112	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C132	1-163-809-11	CERAMIC CHIP 0.047uF	10%	25V
C133	1-163-809-11	CERAMIC CHIP 0.047uF	10%	25V
C150	1-163-127-00	CERAMIC CHIP 270PF	5%	50V
C151	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C154	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C155	1-163-088-00	CERAMIC CHIP 5PF	50V	
C156	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C157	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C158	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C159	1-163-133-00	CERAMIC CHIP 470PF	5%	50V
C160	1-163-116-00	CERAMIC CHIP 91PF	5%	50V
C161	1-124-443-00	ELECT 100uF	20%	10V
C162	1-163-130-00	CERAMIC CHIP 360PF	5%	50V
C163	1-124-907-11	ELECT 10uF	20%	50V
C164	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C165	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C166	1-164-232-11	CERAMIC CHIP 0.01uF	50V	
C167	1-164-232-11	CERAMIC CHIP 0.01uF	10%	50V

< FILTER >

CF1	1-577-327-11	FILTER, CERAMIC
CF2	1-577-317-11	FILTER, CERAMIC
CF3	1-527-786-81	FILTER, CERAMIC

< CONNECTOR >

CN1	* 1-564-508-11	PLUG, CONNECTOR 5P
CN2	* 1-564-509-11	PLUG, CONNECTOR 6P
CN3	* 1-564-507-11	PLUG, CONNECTOR 4P
CN4	* 1-564-505-11	PLUG, CONNECTOR 2P
CN5	* 1-564-505-11	PLUG, CONNECTOR 2P
CN6	* 1-564-505-11	PLUG, CONNECTOR 2P

< FILTER >

CP1	1-235-171-00	FILTER, BAND PASS
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< TRIMMER >

CT1	1-141-304-21	CAP, TRIMMER 10PF
CT2	1-141-304-21	CAP, TRIMMER 10PF
CT3	1-141-245-00	CAP, TRIMMER 30PF

MAIN

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< DIODE >							
D1	8-719-979-71	DIODE SVC342-L		Q9	8-729-901-78	TRANSISTOR 2SC2412K-R	
D2	8-719-949-46	DIODE 1T32		Q10	8-729-903-30	TRANSISTOR DTC144TK	
D3	8-719-949-46	DIODE 1T32		Q11	8-729-903-30	TRANSISTOR DTC144TK	
D4	8-719-800-76	DIODE 1SS226		Q12	8-729-921-71	TRANSISTOR 2SD1781K-Q	
D5	8-719-800-76	DIODE 1SS226		Q13	8-729-921-71	TRANSISTOR 2SD1781K-Q	
D6	8-719-105-91	DIODE RD5. 6M-B2		Q14	8-729-904-87	TRANSISTOR 2SB1197K-R	
D7	8-719-400-18	DIODE MA152WK		Q15	8-729-901-78	TRANSISTOR 2SC2412K-R	
D9	8-719-400-18	DIODE MA152WK		Q16	8-729-901-78	TRANSISTOR 2SC2412K-R	
D10	8-719-400-18	DIODE MA152WK		Q17	8-729-901-78	TRANSISTOR 2SC2412K-R	
D11	8-719-105-91	DIODE RD5. 6M-B2		Q18	8-729-903-29	TRANSISTOR DTA144TK	
D12	8-719-989-70	DIODE SL2336B-81 (POWER)		Q19	8-729-901-78	TRANSISTOR 2SC2412K-R	
D13	8-719-989-46	DIODE SLP136B-81 (STANDBY)		Q20	8-729-903-29	TRANSISTOR DTA144TK	
D14	8-719-157-36	DIODE RD6. 8M-B		Q21	8-729-903-29	TRANSISTOR DTA144TK	
D15	8-719-938-72	DIODE SB01-05CP		Q22	8-729-903-30	TRANSISTOR DTC144TK	
D30	8-719-400-18	DIODE MA152WK		Q23	8-729-903-30	TRANSISTOR DTC144TK	
D31	8-719-979-71	DIODE SVC342-L		Q24	8-729-903-29	TRANSISTOR DTA144TK	
D32	8-719-400-18	DIODE MA152WK		Q25	8-729-901-78	TRANSISTOR 2SC2412K-R	
< IC >				Q26	8-729-216-22	TRANSISTOR 2SA1162	
IC1	8-759-153-27	IC uPD7564G-544		Q27	8-729-901-78	TRANSISTOR 2SC2412K-R	
IC2	8-759-153-26	IC uPD1715G-644-24		Q28	8-729-900-51	TRANSISTOR DTA114TK	
IC3	8-752-050-00	IC CX20111		Q29	8-729-903-30	TRANSISTOR DTC144TK	
IC4	8-759-804-98	IC LA3335M		Q30	8-729-901-78	TRANSISTOR 2SC2412K-R	
IC5	8-759-932-54	IC BU4066BF		Q31	8-729-921-71	TRANSISTOR 2SD1781K-Q	
IC6	8-759-983-74	IC LM324N		Q32	8-729-901-78	TRANSISTOR 2SC2412K-R	
IC7	8-759-801-91	IC LC7534M		Q33	8-729-901-78	TRANSISTOR 2SC2412K-R	
IC8	8-759-820-22	IC LA4597		Q34	8-729-901-78	TRANSISTOR 2SC2412K-R	
< COIL >				Q35	8-729-901-78	TRANSISTOR 2SC2412K-R	
L1	1-402-549-11	ANTENNA, FERRITE-ROD (MW, LW)		Q36	8-729-903-30	TRANSISTOR DTC144TK	
L2	1-428-199-11	COIL, AIR CORE		Q37	8-729-901-78	TRANSISTOR 2SC2412K-R	
L3	1-428-200-11	COIL, AIR CORE		Q39	8-729-903-30	TRANSISTOR DTC144TK	
L4	1-406-368-11	COIL (OSC)		Q41	8-729-109-44	TRANSISTOR 2SK94	
L5	1-412-002-31	INDUCTOR CHIP 4.7uH		Q42	8-729-900-51	TRANSISTOR DTA114TK	
L6	1-410-983-31	INDUCTOR CHIP 0.15uH		Q43	8-729-903-30	TRANSISTOR DTC144TK	
L7	1-410-981-11	INDUCTOR CHIP 0.1uH		Q44	8-729-903-29	TRANSISTOR DTA144TK	
L10	1-406-427-11	COIL (OSC) (LW)		Q45	8-729-920-38	TRANSISTOR 2SC2059K-N	
< TRANSISTOR >				Q46	8-729-920-38	TRANSISTOR 2SC2059K-N	
Q1	8-729-920-38	TRANSISTOR 2SC2059K-N		Q47	8-729-920-38	TRANSISTOR 2SC2059K-N	
Q2	8-729-903-30	TRANSISTOR DTC144TK		< RESISTOR >			
Q3	8-729-903-30	TRANSISTOR DTC144TK		R1	1-216-133-00	METAL CHIP 3.3M 5%	1/10W
Q4	8-729-901-78	TRANSISTOR 2SC2412K-R		R2	1-216-133-00	METAL CHIP 3.3M 5%	1/10W
Q5	8-729-901-78	TRANSISTOR 2SC2412K-R		R4	1-216-097-00	METAL CHIP 100K 5%	1/10W
Q6	8-729-900-51	TRANSISTOR DTA114TK		R5	1-216-097-00	METAL CHIP 100K 5%	1/10W
Q7	8-729-903-30	TRANSISTOR DTC144TK		R6	1-216-073-00	METAL CHIP 10K 5%	1/10W
Q8	8-729-903-30	TRANSISTOR DTC144TK		R7	1-216-077-00	METAL CHIP 15K 5%	1/10W
				R8	1-216-041-00	METAL CHIP 470 5%	1/10W
				R9	1-216-748-11	METAL CHIP 39K 5%	1/10W
				R10	1-216-037-00	METAL CHIP 330 5%	1/10W
				R11	1-216-089-00	METAL CHIP 47K 5%	1/10W

MAIN

Ref. No.	Part No.	Description	Remark		
R12	1-216-089-00	METAL CHIP	47K	5%	1/10W
R13	1-216-113-00	METAL CHIP	470K	5%	1/10W
R14	1-216-295-00	METAL CHIP	0	5%	1/10W
R15	1-216-097-00	METAL CHIP	100K	5%	1/10W
R16	1-216-097-00	METAL CHIP	100K	5%	1/10W
R17	1-216-105-00	METAL CHIP	220K	5%	1/10W
R18	1-216-296-00	METAL CHIP	0	5%	1/8W
R19	1-216-105-00	METAL CHIP	220K	5%	1/10W
R20	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R21	1-216-091-00	METAL CHIP	56K	5%	1/10W
R22	1-216-097-00	METAL CHIP	100K	5%	1/10W
R23	1-216-105-00	METAL CHIP	220K	5%	1/10W
R24	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R25	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R26	1-216-049-00	METAL CHIP	1K	5%	1/10W
R27	1-216-073-00	METAL CHIP	10K	5%	1/10W
R28	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R29	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R30	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R31	1-216-073-00	METAL CHIP	10K	5%	1/10W
R32	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R33	1-216-049-00	METAL CHIP	1K	5%	1/10W
R34	1-216-081-00	METAL CHIP	22K	5%	1/10W
R35	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R36	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R37	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R38	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R39	1-216-295-00	METAL CHIP	0	5%	1/10W
R40	1-216-097-00	METAL CHIP	100K	5%	1/10W
R41	1-216-097-00	METAL CHIP	100K	5%	1/10W
R42	1-216-073-00	METAL CHIP	10K	5%	1/10W
R43	1-216-073-00	METAL CHIP	10K	5%	1/10W
R44	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R45	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R46	1-216-105-00	METAL CHIP	220K	5%	1/10W
R47	1-216-025-00	METAL CHIP	100	5%	1/10W
R48	1-216-113-00	METAL CHIP	470K	5%	1/10W
R49	1-216-105-00	METAL CHIP	220K	5%	1/10W
R50	1-216-025-00	METAL CHIP	100	5%	1/10W
R51	1-216-105-00	METAL CHIP	220K	5%	1/10W
R52	1-216-105-00	METAL CHIP	220K	5%	1/10W
R59	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R60	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R61	1-216-296-00	METAL CHIP	0	5%	1/8W
R62	1-216-041-00	METAL CHIP	470	5%	1/10W
R63	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R64	1-216-049-00	METAL CHIP	1K	5%	1/10W
R65	1-216-081-00	METAL CHIP	22K	5%	1/10W
R66	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R67	1-216-113-00	METAL CHIP	470K	5%	1/10W
R68	1-216-113-00	METAL CHIP	470K	5%	1/10W
R69	1-216-113-00	METAL CHIP	470K	5%	1/10W
R70	1-216-113-00	METAL CHIP	470K	5%	1/10W
R71	1-216-081-00	METAL CHIP	22K	5%	1/10W
R72	1-216-081-00	METAL CHIP	22K	5%	1/10W
R73	1-216-081-00	METAL CHIP	22K	5%	1/10W
R74	1-216-081-00	METAL CHIP	22K	5%	1/10W
R75	1-216-295-00	METAL CHIP	0	5%	1/10W
R76	1-216-121-00	METAL CHIP	1M	5%	1/10W
R77	1-216-121-00	METAL CHIP	1M	5%	1/10W
R78	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R80	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R81	1-216-296-00	METAL CHIP	0	5%	1/8W
R82	1-216-121-00	METAL CHIP	1M	5%	1/10W
R83	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R84	1-216-113-00	METAL CHIP	470K	5%	1/10W
R85	1-216-113-00	METAL CHIP	470K	5%	1/10W
R86	1-216-113-00	METAL CHIP	470K	5%	1/10W
R87	1-216-113-00	METAL CHIP	470K	5%	1/10W
R88	1-216-113-00	METAL CHIP	470K	5%	1/10W
R89	1-216-113-00	METAL CHIP	470K	5%	1/10W
R90	1-216-113-00	METAL CHIP	470K	5%	1/10W
R91	1-216-113-00	METAL CHIP	470K	5%	1/10W
R92	1-216-113-00	METAL CHIP	470K	5%	1/10W
R93	1-216-113-00	METAL CHIP	470K	5%	1/10W
R94	1-216-113-00	METAL CHIP	470K	5%	1/10W
R95	1-216-113-00	METAL CHIP	470K	5%	1/10W
R96	1-216-113-00	METAL CHIP	470K	5%	1/10W
R97	1-216-113-00	METAL CHIP	470K	5%	1/10W
R98	1-216-113-00	METAL CHIP	470K	5%	1/10W
R99	1-216-113-00	METAL CHIP	470K	5%	1/10W
R100	1-216-113-00	METAL CHIP	470K	5%	1/10W
R101	1-216-113-00	METAL CHIP	470K	5%	1/10W
R102	1-216-121-00	METAL CHIP	1M	5%	1/10W
R103	1-216-096-00	METAL CHIP	91K	5%	1/10W
R104	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R105	1-216-073-00	METAL CHIP	10K	5%	1/10W
R106	1-216-097-00	METAL CHIP	100K	5%	1/10W
R107	1-216-073-00	METAL CHIP	10K	5%	1/10W
R108	1-216-001-00	METAL CHIP	10	5%	1/10W
R109	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R111	1-216-060-00	METAL GLAZE	3K	5%	1/10W
R112	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R113	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R114	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R115	1-216-049-00	METAL CHIP	1K	5%	1/10W
R116	1-216-089-00	METAL CHIP	47K	5%	1/10W
R117	1-216-089-00	METAL CHIP	47K	5%	1/10W

MC-Service

MAIN	POWER
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Ref. No.	Part No.	Description	Remark
R118	1-216-113-00	METAL CHIP 470K 5%	1/10W
R119	1-216-049-00	METAL CHIP 1K 5%	1/10W
R120	1-216-097-00	METAL CHIP 100K 5%	1/10W
R121	1-216-073-00	METAL CHIP 10K 5%	1/10W
R122	1-216-089-00	METAL CHIP 47K 5%	1/10W
R123	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R124	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R125	1-216-121-00	METAL CHIP 1M 5%	1/10W
R126	1-216-121-00	METAL CHIP 1M 5%	1/10W
R128	1-216-295-00	METAL CHIP 0 5%	1/10W
R129	1-216-017-00	METAL CHIP 47 5%	1/10W
R132	1-216-296-00	METAL CHIP 0 5%	1/8W
R135	1-216-198-00	METAL CHIP 1K 5%	1/8W
R136	1-216-246-00	METAL GLAZE 100K 5%	1/8W
R137	1-216-295-00	METAL CHIP 0 5%	1/10W
R138	1-216-001-00	METAL CHIP 10 5%	1/10W
R139	1-216-295-00	METAL CHIP 0 5%	1/10W
R143	1-216-214-00	METAL GLAZE 4.7K 5%	1/8W
R144	1-216-296-00	METAL CHIP 0 5%	1/8W
R145	1-216-295-00	METAL CHIP 0 5%	1/10W
R146	1-216-001-00	METAL CHIP 10 5%	1/10W
R147	1-216-001-00	METAL CHIP 10 5%	1/10W
R148	1-216-295-00	METAL CHIP 0 5%	1/10W
R149	1-216-097-00	METAL CHIP 100K 5%	1/10W
R151	1-216-097-00	METAL CHIP 100K 5%	1/10W
R152	1-216-097-00	METAL CHIP 100K 5%	1/10W
R153	1-216-097-00	METAL CHIP 100K 5%	1/10W
R154	1-216-073-00	METAL CHIP 10K 5%	1/10W
R155	1-216-296-00	METAL CHIP 0 5%	1/8W
R156	1-216-296-00	METAL CHIP 0 5%	1/8W
R157	1-216-296-00	METAL CHIP 0 5%	1/8W
R158	1-216-295-00	METAL CHIP 0 5%	1/10W
R159	1-216-296-00	METAL CHIP 0 5%	1/8W
R160	1-216-295-00	METAL CHIP 0 5%	1/10W
R161	1-216-295-00	METAL CHIP 0 5%	1/10W
R162	1-216-214-00	METAL GLAZE 4.7K 5%	1/8W
R163	1-216-295-00	METAL CHIP 0 5%	1/10W
R166	1-216-296-00	METAL CHIP 0 5%	1/8W
R171	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R172	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R173	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R174	1-216-049-00	METAL CHIP 1K 5%	1/10W
R175	1-216-049-00	METAL CHIP 1K 5%	1/10W
R176	1-216-049-00	METAL CHIP 1K 5%	1/10W
R177	1-216-049-00	METAL CHIP 1K 5%	1/10W
R178	1-216-097-00	METAL CHIP 100K 5%	1/10W
R179	1-216-295-00	METAL CHIP 0 5%	1/10W
R183	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R184	1-216-041-00	METAL CHIP 470 5%	1/10W

Ref. No.	Part No.	Description	Remark
R185	1-216-113-00	METAL CHIP 470K 5%	1/10W
R186	1-216-295-00	METAL CHIP 0 5%	1/10W
R187	1-216-295-00	METAL CHIP 0 5%	1/10W
R190	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R191	1-216-065-00	METAL CHIP 4.7K 5%	1/10W
R200	1-216-025-00	METAL CHIP 100 5%	1/10W
R201	1-216-037-00	METAL CHIP 330 5%	1/10W
R203	1-216-073-00	METAL CHIP 10K 5%	1/10W
R204	1-216-049-00	METAL CHIP 1K 5%	1/10W
R205	1-216-025-00	METAL CHIP 100 5%	1/10W
R206	1-216-097-00	METAL CHIP 100K 5%	1/10W
R207	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R208	1-216-295-00	METAL CHIP 0 5%	1/10W
R209	1-216-113-00	METAL CHIP 470K 5%	1/10W
R210	1-216-073-00	METAL CHIP 10K 5%	1/10W
R211	1-216-073-00	METAL CHIP 10K 5%	1/10W
R212	1-216-121-00	METAL CHIP 1M 5%	1/10W
R213	1-216-295-00	METAL CHIP 0 5%	1/10W
R214	1-216-089-00	METAL CHIP 47K 5%	1/10W
R215	1-216-049-00	METAL CHIP 1K 5%	1/10W
R216	1-216-113-00	METAL CHIP 470K 5%	1/10W
R217	1-216-295-00	METAL CHIP 0 5%	1/10W
R218	1-216-296-00	METAL CHIP 0 5%	1/8W
R220	1-216-089-00	METAL CHIP 47K 5%	1/10W
R221	1-216-089-00	METAL CHIP 47K 5%	1/10W
R222	1-216-029-00	METAL CHIP 150 5%	1/10W

< VARIABLE RESISTOR >

RV1	1-238-017-11	RES. ADJ. CARBON 22K
RV2	1-241-409-11	RES. VAR. CARBON 10K/10K

< TRANSFORMER >

T1	1-404-870-11	TRANSFORMER, IF
T2	1-404-870-11	TRANSFORMER, IF

< CRYSTAL >

X1	1-567-769-11	VIBRATOR, CRYSTAL (75kHz)
X2	1-577-637-11	VIBRATOR, CERAMIC (500kHz)

* 1-640-408-11 POWER BOARD

1-535-476-11 TERMINAL
 ⚠ 1-555-795-00 CORD, POWER, EULO PLUG (AEP)
 ⚠ 1-556-035-00 CORD, POWER (UK)
 * 3-366-339-01 BAND, BINDING

The components identified by
 mark ⚠ or dotted line with mark
 ⚠ are critical for safety.
 Replace only with part number
 specified.

POWER**TERMINAL (A)****TERMINAL (B)**

Ref. No.	Part No.	Description	Remark		
< CAPACITOR >					
C100	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C101	⚠ 1-164-232-11	CERAMIC CHIP	0.01uF		50V
C102	⚠ 1-164-232-11	CERAMIC CHIP	0.01uF		50V
C103	⚠ 1-164-232-11	CERAMIC CHIP	0.01uF		50V
C104	⚠ 1-164-232-11	CERAMIC CHIP	0.01uF		50V
C106	1-124-120-11	ELECT	220uF	20%	25V
C107	⚠ 1-124-556-11	ELECT	2200uF	20%	16V
< DIODE >					
D25	8-719-200-02	DIODE 10E2			
D26	⚠ 8-719-200-02	DIODE 10E2			
D27	⚠ 8-719-200-02	DIODE 10E2			
D28	⚠ 8-719-200-02	DIODE 10E2			
D29	⚠ 8-719-200-02	DIODE 10E2			
< RESISTOR >					
R130	1-216-049-00	METAL CHIP	1K	5%	1/10W
R131	1-216-049-00	METAL CHIP	1K	5%	1/10W
< TRANSFORMER >					
T10	⚠ 1-450-319-11	TRANSFORMER, POWER			

* 1-640-406-11 TERMINAL (A) BOARD					

< CAPACITOR >					
C94	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C95	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C99	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
< JACK >					
J1	1-565-424-11	JACK (DISCMAN REMOTE)			
J2	1-563-650-11	JACK, PIN 2P (CD IN)			
J3	1-537-342-11	TERMINAL BOARD (SP)			
< COIL >					
L8	1-412-002-31	INDUCTOR CHIP	4.7uH		
L9	1-412-002-31	INDUCTOR CHIP	4.7uH		
< RESISTOR >					
R55	1-216-089-00	METAL CHIP	47K	5%	1/10W
R56	1-216-089-00	METAL CHIP	47K	5%	1/10W
R57	1-216-078-00	METAL GLAZE	16K	5%	1/10W
R58	1-216-078-00	METAL GLAZE	16K	5%	1/10W
R164	1-216-295-00	METAL CHIP	0	5%	1/10W
R165	1-216-295-00	METAL CHIP	0	5%	1/10W

Ref. No.	Part No.	Description	Remark		
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	* 1-640-409-11	TERMINAL (B) BOARD *****			
		< CAPACITOR >			
C120	1-126-233-11	ELECT	22uF	20%	50V
		< JACK >			
J4	1-537-342-11	TERMINAL BOARD (SP)			

MISCELLANEOUS

SP1	1-544-447-11	SPEAKER
SP2	1-544-448-11	SPEAKER (WOOFER)
SP3	1-544-447-11	SPEAKER
SP4	1-544-448-11	SPEAKER (WOOFER)

ACCESSORY & PACKING MATERIAL

1-558-848-21	CORD, SPEAKER CONNECTION
* 3-363-822-01	CUSHION (UPPER)
* 3-363-823-01	CUSHION (LOWER)
* 3-363-825-01	INDIVIDUAL CARTON
* 3-365-916-01	STOPPER
* 3-365-922-01	FOOT
* 3-367-418-01	CUSHION (E)
* 3-704-334-01	SHEET (STANDARD), PROTECTION
3-752-505-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN)
3-752-505-41	MANUAL, INSTRUCTION (SPANISH, PORTUGUESE, DUTCH, SWEDISH, ARABIC) (AEP)

HARDWARE LIST

# 1	7-685-649-79	SCREW +BTP 3X14 TYPE2 N-S
# 2	7-685-551-11	SCREW +BTP 3X20 TYPE2 N-S
# 3	7-685-152-19	SCREW +BTP 3X25 TYPE2 N-S
# 4	7-685-650-79	SCREW +BTP 3X16 TYPE2 N-S
# 5	7-682-547-04	SCREW +PTT 3X6 (S)

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

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